Supplementary information

Controllable Fabrication of Stable Superhydrophobic Surfaces on Iron Substrates

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Fig. S1. Cyclic voltammetry for investigating the electrochemical behaviour of the system.



Fig. S2. The Amperometric I-t Curve in the electrochemical deposition process.



Fig. S3. XPS core level spectra of Fe $2p_{3/2}$ (A) before annealing, (B) after annealing at 180°C for 70 min with filter papers and (C) without filter papers.



Fig. S4. The annealing device for SHSs.







Fig. S5. Variation of the water contact angle of the sample surfaces via electrochemical machining at -1.8V as a function of: annealing temperature (a), annealing time (b), electrolyte concentration (c), electroplating time (d), and etching time (e).